April 1, 2016

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee
                    Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
                    CPC, OPC, and WPC

Climate Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of April 4, 2016:

RFC #613 – Create a new web page including the announcement, abstract
submission, & registration for the 41th Climate Diagnostics Prediction Workshop
(CDPW). To be implemented on April 4 at 1200Z.

The following RFCs are in progress or have been delayed:

RFC #605 – Africa_RFE v1.0.0 – Implement into operations a new process called
the Africa RFC (Rainfall Estimator) for International Desk monitoring activities. Was
to be implemented on March 21 at 1600Z; implementation began on March 30 due
to personnel being unavailable to implement and is expected to be completed on
April 1.

The following NCO RFCs to be implemented the week of April 4, 2016 may affect
CPC:

RFC #1833 - Restrict access to unapproved software installed in /usrx/local/prod
on Luna/Surge. The software is being moved into a restricted archive directory
on WCOSS, and it must follow the formal change management promotion
process if it's to be used in production. If it is to be promoted to production then it

will be reinstalled under /usrx/local/dev via an RFC then promoted to /usrx/local/prod with another RFC. To be implemented on April 5 at 1800Z.

The following NCO RFCs are in progress and may affect CPC:

RFC #1756 - NetCDF4-Python v4-1.2.1 - IBM will install the Python NetCDF4 software on Luna and Surge in /gpfs/hps/usrx/local/prod. This software reads and writes NetCDF files. Implementation began on March 7 at 1600Z; was to be completed by March 21 but IBM has found they need to install HDF5 and NetCDF first on the Crays in order to properly install this software, so the new completion date for this RFC is April 20.

RFC #1796 – LSF v9.1.2 – On the Crays, modify the LSF queue configurations to reject all jobs with memory specifications greater than 3GB submitted to the following queues: devonprod, hpc_cray, prenpost, preprod, prod, debug, dev, devhigh, devmax, prod. This will maximize job slot efficiency on MAMU nodes for jobs executing parallel tasks via aprun. Implementation began on March 22 at 1700Z and should be completed by April 6.

Ocean Prediction Center

The following accelerated items were implemented this past week:

RFC #611 - $OPCSITE/scripts/make_NavyOFA_vgf.csh v2016.03.31 - If the Gulf Stream vgf is created and sometime later, the forecaster starts using the backup desk, the 24 hour color wind wave launch script will fail to find the latest vgf. As a result, the color version of the chart does not update on the OPC website. This update resolves that problem. Implemented on March 31 at 1415Z.

The following will be implemented the week of April 4, 2016:

RFC #612 - Update 6 perl scripts to remove harmless (but unnecessary) errors in the output logs. The change simplifies any troubleshooting efforts.   To be implemented on April 4 at 1130Z.

RFC #614 - VibrioHrvst_CTGrowAreas.pl v2016.04.04 - Modify the scale on the Best Harvest graphs in the Long Island Sound Vibrio doubling time web page. At the request of customers, the y-axis will be fixed at a high value of 6 Vibrio

doublings, so in times of low doublings the values will appear less significant on the graphs. The script that posts the daily data file for the graphs will also be updated to better distinguish the 5 locations. To be implemented on April 4 at 1330Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of April 4, 2016 may affect OPC:

RFC #1833 - Restrict access to unapproved software installed in /usrx/local/prod on Luna/Surge. The software is being moved into a restricted archive directory on WCOSS, and it must follow the formal change management promotion process if it's to be used in production. If it is to be promoted to production then it will be reinstalled under /usrx/local/dev via an RFC then promoted to /usrx/local/prod with another RFC. To be implemented on April 5 at 1800Z.

The following NCO RFCs are in progress and may affect OPC:

RFC #1796 – LSF v9.1.2 – On the Crays, modify the LSF queue configurations to reject all jobs with memory specifications greater than 3GB submitted to the following queues: devonprod, hpc_cray, prenpost, preprod, prod, debug, dev, devhigh, devmax, prod. This will maximize job slot efficiency on MAMU nodes for jobs executing parallel tasks via aprun. Implementation began on March 22 at 1700Z and should be completed by April 6.

RFC #1809 - Route multiple Storm Prediction Center grib2 products to the AWIPS2 systems (CTBN/NTBN/OPCN/HPCN). The SREF products (awcsref) will be sent from WCOSS, and the calthunder products will be sent from NCOSRV. Also, stop sending the SREF grib files to NCOSRV, as they're not needed on that system. To be implemented beginning on March 28 at 1400Z and should be completed by April 1.

The following NCO RFCs, which may affect OPC, were approved with an implementation date TBD:

RFC #1357 – RTOFS global v1.1.0 – Major upgrade of the Global RTOFS model. See the TIN at: http://www.nws.noaa.gov/os/notification/tin15-36global-rtofsaaa.htm for details. This was advertised as having an October 6 implementation date but this implementation is being postponed due to a delay in the Navy's HYCOM model upgrade. Once the HYCOM upgrade is implemented, the Global RTOFS will be scheduled for implementation. The Navy hopes to upgrade HYCOM in FY16Q3. Notification will be given in advance so users may prepare for any changes which may affect them. This upgrade of the Global RTOFS was approved by the NCEP Director.

Weather Prediction Center

The following accelerated items were implemented this past week:

RFC #610 – mkqpfgrb2.sh v03.25.2016 - Old code within 'mkqpfgrb2.sh' was preventing the dbnet alert from launching the preliminary F078 5km QPF grid to AWIPS. Added logic to script to call the dbnet alert for F078 for the 6/18z cycles. Implemented on March 25 at 1230Z.

The following will be implemented the week of April 4, 2016:

RFC #615 – mod_res.tbl v20160404 - Update 'mod_res.tbl' to add new parameters that are now in the HRRR-TLE (HRRR Time Lagged Ensemble) and add new restore files to $NMAP_RESTORE. To be implemented on April 4 at 1400Z.

RFC #616 - Add a link to a prototype modernized WPC home page to WPC's web site. The link is http://www.wpc.ncep.noaa.gov/para/#page=sum. To be implemented on April 5 at 1800Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of April 4, 2016 may affect WPC:

None

The following NCO RFCs are in progress and may affect WPC:

RFC #1809 - Route multiple Storm Prediction Center grib2 products to the
AWIPS2 systems (CTBN/NTBN/OPCN/HPCN). The SREF products (awcsref)
will be sent from WCOSS, and the calthunder products will be sent from
NCOSRV. Also, stop sending the SREF grib files to NCOSRV, as they're not
needed on that system. To be implemented beginning on March 28 at 1400Z
and should be completed by April 1.

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

The CPC/OPC/WPC Configuration Management documents are available at
https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/.

Please review these documents if you have questions prior to submitting
changes for CPC/OPC/WPC configurable items.